

# Dynamical Neuroscience Satellite Symposium

## *Closing the Loop*

*Thursday, October 21, 2004*

7:00 Registration, Continental Breakfast and Poster set-up

8:15 Opening Remarks and Welcome

### **Session I – The Dynamic Clamp**

8:30 *How Good is Good Enough? Using the Dynamic Clamp to Understand  
Parameter Regulation in Network Function*

Eve E. Marder, Brandeis University

9:30 *Dynamic Clamp: Technological Implementations and Algorithmic Development*

Robert Butera, Georgia Technical University

10:30 Coffee Break

11:00 *Biological-Artificial Interactions: Evolution of Techniques and Emerging Concepts  
in Network Neurosciences*

Gwendal le Masson, French National Institute for Health and Medical Research (INSERM), Paris

12:00 Poster Session and lunch on your own

### **Session II – The Dynamic Clamp and Other**

2:00 *Synaptic Depression Mediates Bistability in Neuronal Networks with Feedback Inhibition*

Farzan Nadim, Rutgers University

3:00 *Controlling the Spread of Synchrony with Inhibition*

Alex Reyes, New York University

3:30 Coffee Break

4:30 *Learning in Networks of Cortical Neurons*

Shimon Marom, Israel Institute of Technology (Technion), Haifa

6:00 Banquet

### **Keynote Address**

7:00 *Putting it All Together: Schizophrenia, from Phenotype to Genotype and Back*

Mayada Akil, M.D., National Institute of Mental Health

**Adjourn**

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Friday, October 22, 2004

7:00 Registration, Continental Breakfast, and Poster set-up

8:15 Meeting Announcements

### Session III – Closed Loop Systems

8:30 *Title: to be announced*

Yang Dan, University of California at Berkeley

9:30 *Spatial and Temporal Organization of Activity in Motor Cortex*

Moshe Abeles, Bar Ilan University, Ramat Gan, Israel

10:30 Coffee break

11:00 *Title: to be announced*

Rafael Yuste, Columbia University

12:00 Poster Session (Ballroom I) and lunch on your own

### Session IV – Applications

2:00 *Title: to be announced*

Theodore W. Berger, University of Southern California

3:00 *The Organization of Visual Motion Reflexes in Flies and their Role in Flight Control*

Michael Dickinson, California Institute of Technology

4:00 Coffee Break

4:30 *Title: to be announced*

Andrew Schwartz, University of Pittsburgh

5:30 *Title: to be announced*

Peter A. Tass, Institute of Medicine, Jülich, and University of Cologne, Germany

Adjourn



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